

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P631265

Luminaire Tested: GWS-SA1F-735-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-735-U-SL2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

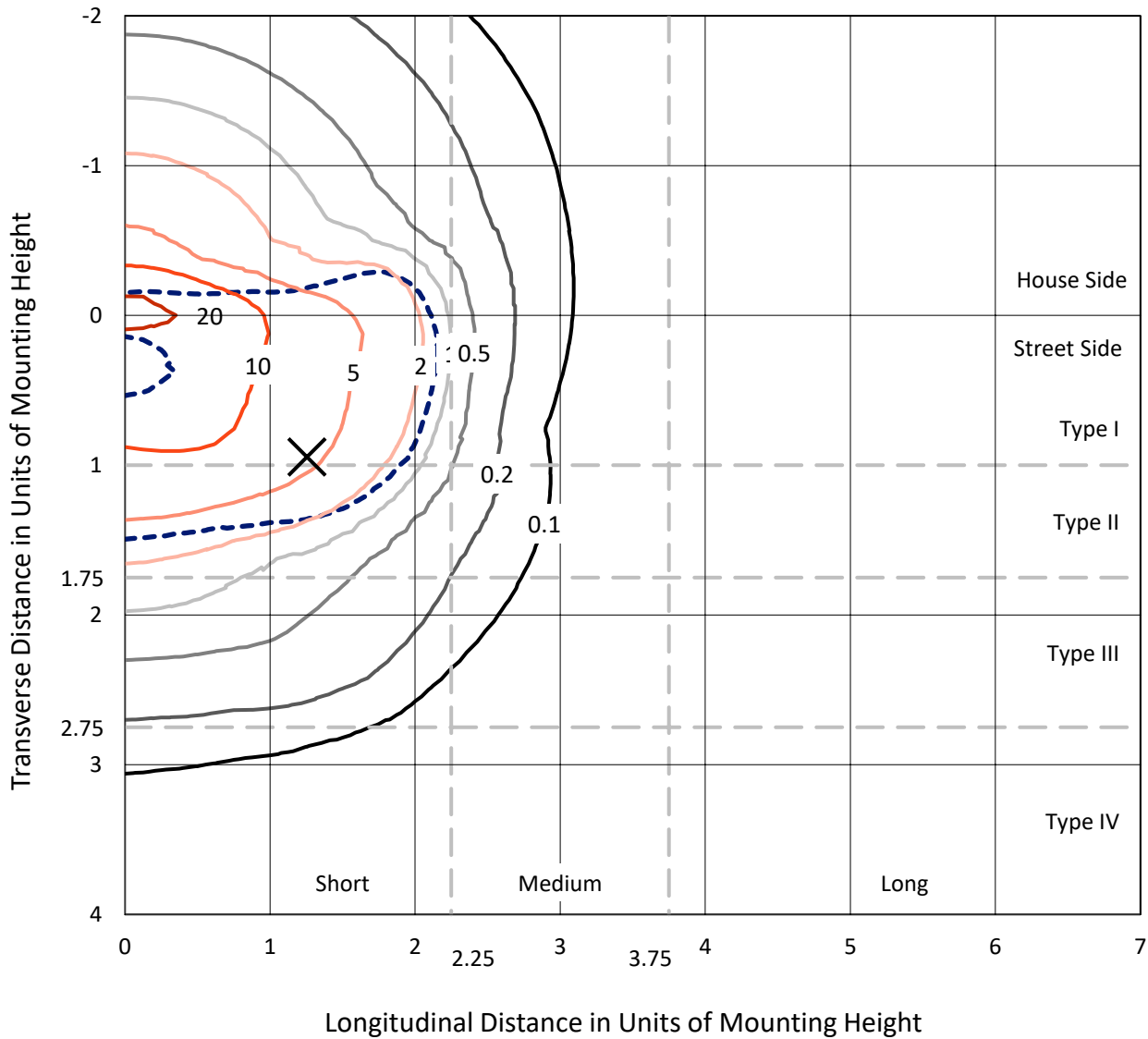
Lumens per Lamp: N/A  
Luminaire Lumens: 7077.3 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

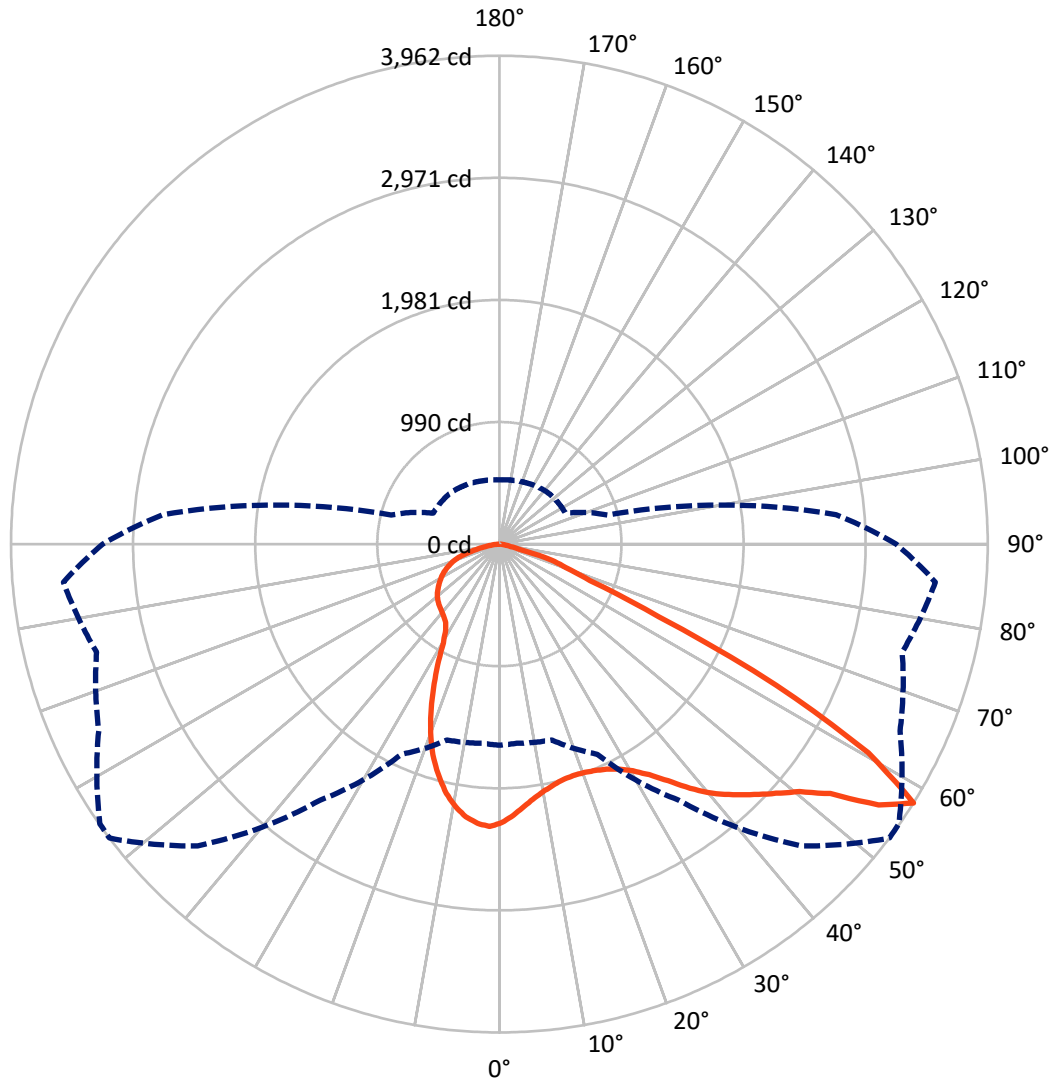
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2212.8	0.0	2212.8
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	4864.5	0.0	4864.5
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	7077.3	0.0	7077.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.4	2.9
10°-20°	536.2	7.6
20°-30°	790.0	11.2
30°-40°	1105.7	15.6
40°-50°	1453.6	20.5
50°-60°	1704.3	24.1
60°-70°	1004.0	14.2
70°-80°	249.8	3.5
80°-90°	29.3	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7077.3	100.0
0°-180°	7077.3	100.0

**Coefficient of Utilization**



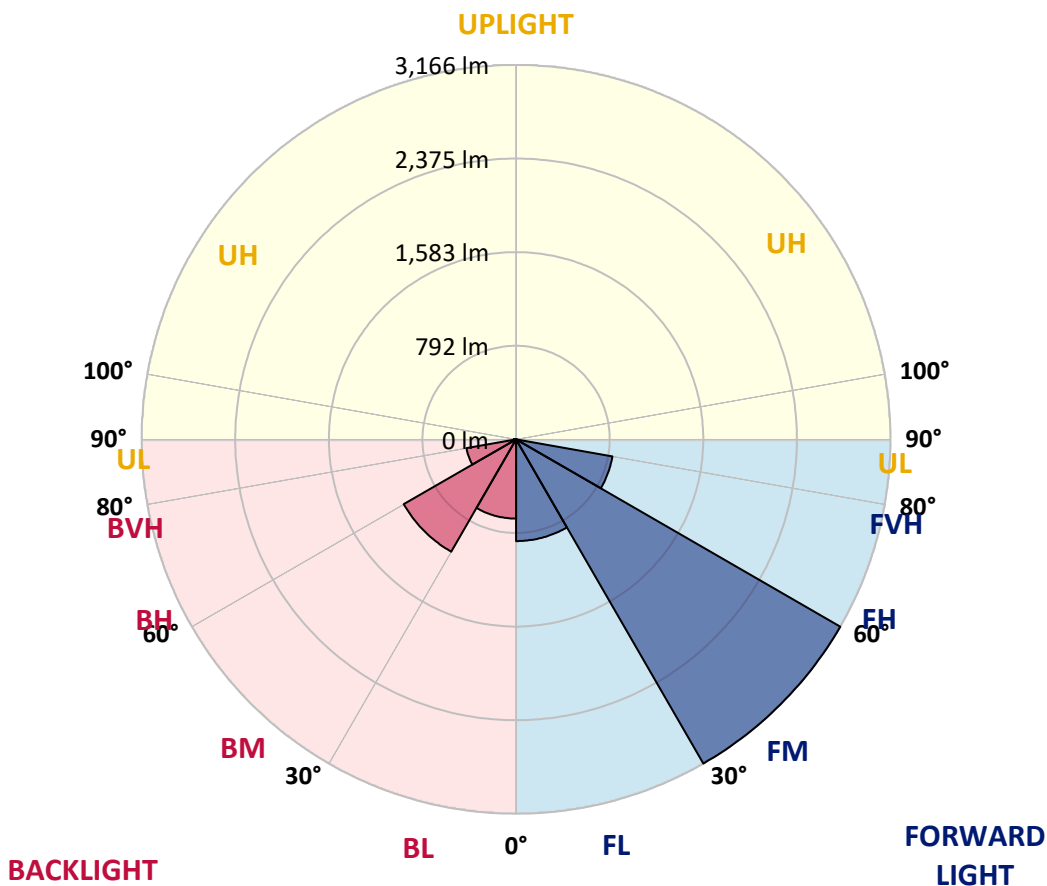
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	860.5	12.2			
FM (30°-60°)	3166.4	44.7			
FH (60°-80°)	827.8	11.7			G1/1800
FVH (80°-90°)	9.8	0.1			G0/10
BL (0°-30°)	670.0	9.5	B2/1000		
BM (30°-60°)	1097.2	15.5	B2/2500		
BH (60°-80°)	426.0	6.0	B1/500		G1/500
BVH (80°-90°)	19.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0
2.5°	2130.1	2136.1	2137.3	2155.7	2156.9	2183.7	2201.6	2198.0	2216.5	2239.1	2257.0
5°	2028.3	2028.9	2034.8	2056.8	2068.8	2103.9	2133.7	2133.7	2169.4	2215.9	2255.8
7.5°	1944.3	1943.7	1949.0	1973.5	1993.1	2035.4	2075.9	2080.7	2130.7	2198.6	2263.5
10°	1866.2	1870.4	1876.4	1906.1	1931.2	1983.6	2031.8	2039.6	2102.7	2186.7	2274.3
12.5°	1816.2	1816.8	1825.7	1859.1	1891.3	1947.2	1997.9	2007.4	2080.1	2175.4	2282.0
15°	1784.0	1784.6	1794.2	1831.1	1868.6	1925.2	1977.0	1987.8	2067.0	2173.6	2296.9
17.5°	1769.7	1769.1	1778.1	1815.0	1856.1	1915.1	1970.5	1983.6	2072.9	2187.3	2323.1
20°	1769.7	1770.3	1775.1	1808.5	1850.2	1912.7	1977.0	1993.1	2096.2	2218.3	2363.6
22.5°	1794.8	1797.1	1799.5	1822.2	1854.9	1916.3	1994.3	2015.7	2146.2	2270.1	2416.6
25°	1843.6	1844.2	1846.6	1865.0	1879.9	1926.4	2022.9	2055.1	2224.2	2345.7	2483.3
27.5°	1909.1	1917.5	1919.8	1931.8	1931.8	1951.4	2067.6	2114.0	2329.7	2454.8	2568.5
30°	2000.9	2003.8	2008.0	2021.1	2006.8	1998.5	2133.1	2192.7	2451.8	2586.4	2671.0
32.5°	2081.3	2087.8	2110.5	2131.9	2106.3	2080.1	2229.6	2299.9	2569.1	2723.4	2780.0
35°	2149.8	2165.9	2209.3	2257.0	2239.1	2212.9	2357.7	2430.9	2665.6	2821.7	2876.5
37.5°	2232.6	2245.1	2304.6	2382.1	2398.2	2385.7	2513.7	2566.1	2730.0	2846.7	2928.9
40°	2316.6	2335.6	2412.5	2519.7	2581.0	2590.0	2657.9	2693.0	2752.0	2797.9	2918.8
42.5°	2402.3	2435.1	2540.5	2665.6	2774.6	2794.9	2779.4	2794.3	2744.8	2730.6	2871.7
45°	2507.2	2545.9	2665.0	2824.7	2968.2	2999.8	2898.5	2884.8	2743.7	2704.9	2842.5
47.5°	2631.1	2669.8	2783.6	2969.4	3152.9	3176.1	3020.6	2995.6	2785.4	2744.3	2881.9
50°	2740.7	2767.5	2869.3	3077.2	3325.0	3338.7	3155.3	3124.9	2889.0	2853.3	3004.6
52.5°	2629.3	2626.3	2733.5	2989.7	3414.4	3579.4	3362.6	3333.4	3089.1	3034.3	3194.6
55°	2230.8	2196.8	2292.7	2544.7	3164.8	3793.2	3734.3	3675.9	3356.0	3216.6	3372.7
57.5°	1630.9	1621.4	1644.6	1881.1	2535.2	3462.0	3961.8	3956.4	3586.5	3383.4	3550.2
60°	1275.3	1261.0	1199.1	1205.6	1728.0	2704.3	3438.2	3596.1	3729.5	3483.5	3674.1
62.5°	1132.4	1121.6	1089.5	1000.7	1029.3	1813.2	2520.3	2665.0	3258.9	3076.6	3155.9
65°	937.6	934.6	961.4	957.8	862.5	1001.3	1422.5	1568.4	2049.1	2074.7	2049.1
67.5°	681.4	676.1	744.0	878.0	830.4	755.9	792.8	843.5	1050.8	943.5	849.4
70°	443.2	435.4	474.7	634.4	743.4	658.8	571.2	562.9	577.8	359.2	388.4
72.5°	297.2	288.3	287.7	349.1	449.1	443.8	442.6	438.4	391.4	283.5	314.5
75°	165.6	158.4	156.7	150.7	160.8	163.8	174.5	180.5	195.4	215.0	238.3
77.5°	28.0	27.4	34.5	44.1	60.8	78.0	96.5	101.9	125.7	148.9	163.8
80°	15.5	16.1	20.8	25.6	34.0	46.5	59.6	63.1	77.4	89.9	101.9
82.5°	8.3	8.3	10.7	13.7	18.5	24.4	32.2	35.1	44.7	52.4	60.8
85°	3.0	3.0	4.2	5.4	7.7	10.1	12.5	14.3	19.7	26.8	30.4
87.5°	0.0	0.0	0.0	0.0	0.6	1.2	2.4	2.4	3.0	5.4	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0
2.5°	2271.9	2255.8	2277.8	2288.0	2291.5	2293.9	2278.4	2267.7	2264.1	2252.8	2246.3
5°	2280.2	2269.5	2290.4	2290.4	2275.5	2260.0	2228.4	2206.4	2190.9	2172.4	2169.4
7.5°	2294.5	2286.8	2298.1	2274.9	2237.3	2195.6	2140.8	2098.0	2063.4	2040.8	2041.4
10°	2313.6	2304.1	2295.1	2243.3	2174.8	2098.0	2014.0	1951.4	1894.2	1868.0	1853.7
12.5°	2326.1	2312.4	2274.9	2189.1	2088.4	1985.4	1866.8	1773.9	1691.1	1653.6	1650.6
15°	2341.6	2316.6	2241.5	2118.8	1978.8	1838.2	1685.7	1556.5	1444.5	1386.1	1383.1
17.5°	2361.8	2320.7	2201.6	2038.4	1863.3	1656.0	1464.2	1301.5	1182.4	1137.1	1144.9
20°	2390.4	2325.5	2156.3	1949.0	1719.7	1448.7	1209.8	1060.3	1014.4	1011.4	1005.5
22.5°	2422.6	2328.5	2106.3	1849.0	1545.8	1227.7	999.5	935.8	935.2	950.1	953.7
25°	2458.9	2330.9	2049.7	1732.2	1357.5	1007.3	884.0	864.9	879.8	907.8	911.4
27.5°	2505.4	2335.6	1981.2	1604.1	1157.4	870.3	820.2	815.5	833.3	859.6	858.4
30°	2573.9	2352.9	1908.5	1457.0	951.9	805.3	781.5	782.1	789.3	801.8	803.6
32.5°	2643.6	2379.7	1837.6	1291.4	833.9	768.4	757.7	756.5	756.5	761.9	763.1
35°	2709.7	2410.1	1760.8	1118.7	776.8	747.0	739.8	736.2	734.5	733.3	731.5
37.5°	2746.6	2425.0	1685.7	948.3	746.4	732.7	725.5	720.8	714.2	709.4	708.3
40°	2730.6	2407.7	1598.8	820.8	727.9	719.0	710.6	704.1	695.1	691.0	688.6
42.5°	2676.9	2354.1	1504.1	760.7	713.0	704.1	694.0	683.2	677.3	673.7	673.1
45°	2620.4	2289.2	1389.7	725.5	698.7	688.0	676.1	664.2	657.6	655.8	655.2
47.5°	2618.6	2257.0	1268.2	697.5	681.4	670.7	655.8	643.9	636.8	634.4	632.0
50°	2697.2	2289.8	1131.2	673.1	663.6	652.3	635.6	622.5	613.5	610.6	610.0
52.5°	2860.4	2413.1	1008.5	648.7	639.7	626.6	612.9	599.8	589.1	583.8	583.2
55°	3036.7	2569.7	932.2	623.7	611.8	600.4	587.9	573.6	561.7	553.4	552.2
57.5°	3219.0	2740.7	909.0	592.1	583.2	575.4	560.5	545.0	531.3	523.6	521.8
60°	3369.1	2887.8	952.5	558.7	554.0	543.8	530.1	515.3	505.7	499.8	498.6
62.5°	2820.5	2351.1	769.0	522.4	522.4	511.7	496.2	485.5	478.9	474.7	473.6
65°	1790.0	1455.8	524.8	486.1	485.5	471.2	458.1	450.9	447.9	441.4	440.2
67.5°	779.7	665.4	448.5	449.1	446.8	431.3	418.2	412.8	406.8	399.7	399.1
70°	404.5	412.2	401.5	408.0	403.9	385.4	372.9	364.6	352.0	344.9	345.5
72.5°	326.4	334.8	346.7	356.8	347.9	333.0	313.3	303.2	287.1	279.4	280.0
75°	249.0	257.9	269.2	280.0	272.8	254.4	241.8	231.7	213.2	204.3	206.1
77.5°	171.6	176.3	190.0	189.4	187.0	181.7	163.2	151.3	132.2	121.5	122.7
80°	106.6	109.6	116.2	119.1	117.9	110.8	95.9	87.0	75.7	69.1	69.7
82.5°	64.3	66.1	72.1	72.7	72.1	66.7	55.4	48.8	41.7	38.1	38.1
85°	32.8	34.0	37.5	37.5	34.0	28.6	25.6	22.6	18.5	16.7	16.7
87.5°	8.9	8.9	11.3	9.5	7.7	7.1	3.6	3.0	1.2	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)